

Table 4-3. Peak Concentrations at 100-Meter Well for No Action, A- and M-Areas

Waste management facility	Site number	PATHRAE peak concentrations ^a										Radio-nuclides (pCi/L)	
		Chemicals (mg/L)											
		As	Ba	Cd	Pb	Ni	NO ₃	Tetrachloro-ethylene	Tetrachloro-methane	1,1,1-Trichloro-ethane	Trichloro-ethylene		
Metals burning pit	1-2	(b)	(b)	(b)	(b)	(b)	(b)	0.0019 ^c (1994)	(b)	(b)	0.91 ^c (1989)	(b)	
Silverton Road waste site	1-3	(b)	(b)	(b)	0.0074 (1980)	(b)	(b)	0.076 ^c (1985)	(b)	(b)	0.071 ^c (1982)	(b)	
Metallurgical laboratory	1-4	(b)	(b)	(b)	0.0031 (1993)	(b)	(b)	(b)	1.6 ^c (1994)	0.52 ^c (1991)	0.026 ^c (1992)	(b)	
Misc. chemicals basins	1-5	(b)	(b)	(b)	(b)	(b)	(b)	220 ^c (1991)	(b)	(b)	(b)	(b)	
A-Area burning/rubble pit ^d	1-6, 1-7	(b)	(b)	(b)	0.038 (1982)	(b)	(b)	(b)	(b)	(b)	1.8 ^c (1983)	(b)	
SRL seepage basins	1-8 to 1-11	0.21 ^c (2135)	(b)	0.0024 (2295)	0.0079 (1988)	0.0004 (1988)	(b)	(b)	(b)	(b)	(b)	200,000 ^c (1968)	
M-Area settling basin	1-12, 1-13	(b)	3.7 ^c (2261)	0.031 ^c (2318)	0.074 ^c (1991)	0.12 ^c (1990)	9200 ^c (1990)	170 ^c (2020)	(b)	4.1 ^c (1990)	62 ^c (1991)	(b)	
Sum of concentrations		0.21 ^c	3.7 ^c	0.033 ^c	0.13 ^c	0.12 ^c	9200 ^c	390 ^c	1.6 ^c	4.6 ^c	64. ^c	200,000 ^c	
Standard ^e		0.05	1.0	0.010	0.050	0.013	10	0.0007	0.005	0.200	0.005	87,000	

^aYear of peak concentration shown in parentheses. Years prior to 1985 are indications of present conditions.^bConstituent did not meet threshold selection criteria for PATHRAE modeling.^cConcentration exceeds regulatory standards.^dConcentrations are from PATHRAE modeling for largest inventory waste management unit in this functional grouping; actual peak concentrations are dependent on the inventory of this unit.^eSources: EPA, 1985a, 1985b (tetrachloroethylene health-based standard), and EPA, 1987; nickel from EPA, 1986b. ICRP Publication 30 (ICRP, 1978) methodology was used to determine concentrations that yield an effective whole-body dose of 4 millirem per year.

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